

#### NOTICE TO PUBLIC.

I have this day sold the Lobby Cafe to Gee Fong and will not be responsible for any bills that may be contracted in the future by my successor.

GEE HIP HON,  
Dated at Tonopah, Nevada, April 25, 1922. A25-10L

Advertise in The Bonanza.

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## Uncle John's Josh

IF A MAN HAD ONLY  
ONE PAIR OF SOCKS,  
WHY WOULD THEY  
HAVE TO BE PURPLE?



#### Notice to Dog Owners.

All owners of dogs are hereby notified that a license must be secured on or before May 2, or the animals will be killed. The ordinance provides a tax of \$2.50 for males and \$5.00 for females, and will be strictly enforced. Those who fail to take out a license will suffer the loss of their canines.

By order of  
O. H. SMITH,  
Chief of Police.

A25-M2

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#### Suggestions For

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Evening  
Dinner

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## INFORMATION IS NOW AVAILABLE FOR RADIO BUGS

Local Scientist Explains Just  
What Hertzian Waves Really  
Are, How They Work.

By LETSON BALLIET  
Economic Engineer.

PART I.

What are the Hertzian waves, or wireless waves? How do they differ from other waves in the air, water or ether? What is meant by the "wave length"? What is meant by "tuning in" for a given wave length and tuning out all other wave lengths?

The widespread, and almost universal interest that has been manifested in radio-telephone operations, has caused the above questions to be frequently asked. An explanation of the matters suggested by the questions will show how simple the radio phone and radio telegraph really is.

It might be well to inject before the start, that "radio" does not come from radium, nor have any more to do with radium than it does with potatoes. The origin of the word, doubtless, comes from "radius" inasmuch as the waves radiate from the center outward, which might properly be called the "radiating waves," like those that radiate in water when a pebble is thrown into the pond. "Radio-waves" is doubtless a contraction from "radiating waves" and "radio phone" was coined from telephone, to distinguish it from the wire phone.

If we ask a scientist what ether is, he will tell us that he does not know. It is a theory. It simply fills a need. It is supposed to be a substance that pervades everywhere, very elastic in its nature and able to transmit vibrations, just as water transmits vibrations or waves. All we know is that the waves do exist and that they are transmitted. Something must transmit them, the waves must come through something that will transmit them, or there could be no waves. We do not know what it is, but whatever it is that the waves come through we call "ether."

It will be a jolt to many of us to know that there is a very decided relation between wireless, heat, light and electric vibrations, or waves. We have often heard of light waves, and probably some of us have heard of heat waves. We know waves of heat and waves of light radiate from the sun. We know that if we put a thermos or vacuum bottle, filled with ice water in a hot oven the water will stay cold, because there is nothing to conduct the heat from the outside through the vacuum into the water, if the vacuum is a complete or perfect vacuum the water will stay ice cold forever. We also know that radiant heat comes from the sun, because you can stand inside a glass window, and feel the heat even if a high wind is blowing on the outside. The wind which is merely moving air cannot blow the heat waves nor the light waves out of line. Evidently, the moving air does not move the other waves, but it will move sound waves, for we can hear sound farther with the wind than against it. It is obvious that an ether wave will travel or radiate in all directions, with or against the wind, while air waves will not radiate equally. As our ear drums are designed to detect certain vibrations in the air, and carry the information to the brain that the air is vibrating, it seems that the matter of "hearing" a radio message depends upon our invention ability to transform air waves into ether waves, and then bring them back into air waves again. Every sound is nothing more than an air wave that your ear detects. There is no noise or sound in the waves, but your ear responds to the waves and you "hear" or detect the waves. If the waves are short the sound is high pitched, if they are long the sound is bass. If the waves are big or high, the sound is loud if the waves are small or nearly flat the sound is weak or low. Waves have two dimensions, length and height, whether in water, air or ether.

What is meant by wave length? Sound travels through air at the rate of about 1200 feet per second. If there are a large number of vibrations per second, as in a high pitched note, say 800 vibrations per second, the first vibration has passed 1200 feet away at the instant that the 800th wave leaves the point of origin. That means that there are 800 vibrations or waves within 1200 feet distance of the starting point; therefore, each wave length of that note is 1 1/2 feet long in the air. If the sound was very bass or low, the vibrations might be as low as 200 per second, in which event the wave lengths would be six feet. If you could see these waves they might look very much like accordion pleats. If the pleats were an inch apart the sound would

be high, if they were very deep between pleats the sound would be loud and high pitched, if they were shallow the sound would be faint and hard to hear, but still high pitched. Likewise, if they were six inches between ridge of the folds, the sound would be bass. If the valleys between the folds were deep the sound would be loud, and base. Two steam whistles may be equally loud and be heard the same distance away, but one may be bass and the other sharp and shrill. In which case the waves are the same, but the length of the waves are different. A bass violin and a piccolo might be equally loud, in which event the depth or height of the waves would be the same, but the length of the waves, or vibrations per second, would be made more in the sounds made by the piccolo, than those made by the violin.

Air waves and ether waves are different. We know that both light and heat waves come from the sun. We know that there must be something to conduct these waves, for they could not come through a vacuum. We know that whatever it is that fills the space between here and the sun is not air, because the air film that surrounds the earth is only 40 miles deep, while the sun is 93,000,000 miles away. There is no air in space. In fact, the space between the stars comes as near being nothing as we can imagine, but there is something that conducts the heat vibrations or waves more rapidly than air will conduct them. We cannot prove what it is that conducts these vibrations or waves so we call it "ether."

(To be continued.)

## QUEEN RUMANIA DEFERS TRIP TO UNITED STATES

Had Hoped to Visit America  
Before the Coronation of  
Her Husband and Herself.

(By Associated Press.)  
SIBIU (Hermannstadt), Transylvania—(By Mail.)—April 6.—Queen Marie of Rumania probably will be obliged to defer her long-contemplated trip to the United States until next year.

She had hoped to visit New York prior to the coronation of herself and King Ferdinand, which will take place here August 16, but the wedding of her second daughter, Marie, to King Alexander of Yugoslavia, early in June, will make it impossible.

Then she has a number of official visits to make this year to European countries so that a voyage to America after the coronation in August is extremely improbable.

The popular Rumanian queen desires to express her warm appreciation and thanks for the many invitations she has received from women's civic societies, other organizations and personal friends in the United States urging her to visit America this year.

She has even had invitations from motion picture concerns, one of which offered her a flattering sum to appear in a scale of lavishness and regal grandeur hitherto unknown in the Balkans. A magnificent cathedral of Byzantine design, costing millions of francs, has been especially erected in Sibiu for the crowning of Europe's most beautiful queen and King Ferdinand. The Rumanian parliament has appropriated an immense sum for the event. Most of the reigning sovereigns and heads of state throughout Europe have been invited. It is hoped here President Harding will send someone to represent the United States.

King Ferdinand and Queen Marie ascended the throne just before the beginning of the world war, and the continuance of the struggle made it necessary to postpone the coronation from year to year. August 16, which has been finally chosen for the event, is the anniversary of Rumania's entry into the war. Massive crowns of gold, surmounted by rare stones, have been made for the Rumanian rulers and the queen has replaced all her precious jewels which were confiscated by the bolsheviks early in the war by gems and jewelry of even greater beauty and worth. Her pearls alone are said to represent millions of francs.

#### NOTICE TO JURORS.

All trial jurors will kindly appear on Wednesday, May 3, 1922, 10 a. m., instead of Monday, May 1, 1922.

L. E. GLASS,  
Clerk of Court.

A28-M2.  
The Bonanza invites comparison. We always publish the news 12 hours in advance of a rehash sheet.

## READ TODAY'S NEWS WHILE IT IS FRESH

Would you keep posted up to the minute concerning foreign and local news? Then read the Bonanza. By so doing you will know the happenings of the day 18 hours in advance of the morning sheet. Comparison with another supposed publication is invited. Why wait to read the rehash of the day's happenings, and then to have the stories garbled until you know not whether they are authentic or not? Moral, stay with the old reliable, the Daily Bonanza.

## WESTERNERS COMPETE GREAT HARVARD OVAL

(By Associated Press.)

SAN FRANCISCO, May 1.—On the Harvard stadium oval, two California track teams, one representing Stanford university and the other the University of California, next month will settle their fight for supremacy, their dual meet at Berkeley last Saturday having resulted in a tie.

The Harvard meet, which both will enter, will be the national championship affair of the Intercollegiate Association of Amateur Athletes of America. Last year California won this meet and brought the national title west. This year it is expected to remain in the west.

Subscribe for The Bonanza.

## LARGE OREBODY GOLDEN EAGLE CLAIM FOUND

Had Been Left on Footwall and  
Drift Followed Within One  
Foot Rich Pay Streak.

The showing on the Golden Eagle claim at Royston, owned by George Cox, Harry Cunningham and C. Y. Poy, and formerly known as the Betts lease, is showing high class and a heavy production seems to be assured in the immediate future. Since work was resumed a week ago the operators have discovered the orebody that was lost at a depth of 53 feet in the west drift and now a magnificent body of high grade ore is showing. It was discovered that the ore lies on the footwall and that the drift was just one foot from the values. Accordingly the widening of the drift has now been started preparatory to stopping, and for a length of 20 feet, or so far as the ground has been explored, a continuous vein of ore is known to be in evidence. With every indication that it will extend upwards of close to surface, and with a possibility that the persistency of the shoot will be found at considerable depth.

The sublease to the south of

the shaft, operated by C. Y. Poy, the Celestial mining man, is not receiving any attention at the present time. It has been ascertained that greater depth will be required by reason of the shaft being located too far up the hill, and that it will be necessary to crosscut back to the vein, a considerable distance. The surface showing on this block of ground is reported as being splendid, so it is more than likely that a new shaft will be started at an early date.

Remember the job printing department of The Bonanza is the most complete and up-to-date in the state of Nevada. No reservations or exceptions to this statement.

#### APPLICATION NO. 6836.

Notice of Application for Permission to Appropriation of the Public Waters of the State of Nevada.

Notice is hereby given that on the 25th day of February, 1922, in accordance with Section 59, Chapter 59, of the Statutes of 1919, one Jerome Lawrence, of Beatty, County of Nye, and state of Nevada, made application to the State Engineer of Nevada for permission to appropriate the public waters of the state of Nevada. Such appropriation is to be made from Lawrence River, underground flow, including its tributaries, Gold Gulch and Indian Creek, at a point in the S.E. 1/4 of Sec. 2, T. 12 S., R. 17 E., M. D. B. & M. by means of pipes and reservoirs and two cubic feet per second is to be conveyed to the N.W. 1/4 Sec. 12, T. 12 S., R. 17 E., M. D. B. & M. by means of ditches and laterals and there used for irrigation and domestic purposes, from March 15th until November 15th of each year. Water not to be returned to stream.  
Date of first publication April 26, 1922.  
Date of last publication May 21, 1922.  
Filed  
J. G. SCHUCHMAN  
State Engineer

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